ELECTRICAL CHARACTERISTICS (T_A = 25 °C unless otherwise noted)						
PARAMETER	**TEST CONDITIONS**		**SYMBOL**	**TYP.**	**MAX.**	**UNIT**
Instantaneous forward voltage	I_F = 0.5 A	T_A = 25 °C	V_F (1)	0.65	-	V
	I_F = 1.0 A			0.72	0.80	
	I_F = 0.5 A	T_A = 125 °C		0.51	-	
	I_F = 1.0 A			0.57	0.65	
Reverse current	V_R = 100 V	T_A = 25 °C	I_R (2)	-	5	µA
		T_A = 125 °C		65	160	
Typical junction capacitance	4.0 V, 1 MHz		C_J	70	-	pF

Notes

(1) Pulse test: 300 µs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 5 ms

THERMAL CHARACTERISTICS (T_A = 25 °c unless otherwise noted)			
PARAMETER	**SYMBOL**	**SS1FH10**	**UNIT**
Typical thermal resistance	$R_{\theta JA}$ (1)(2)(3)	125	°C/W
	$R_{\theta JM}$ (2)(3)	26	

Notes

(1) The heat generated must be less than the thermal conductivity from junction-to-ambient: $dP_D/dT_J < 1/R_{\theta JA}$

(2) Device mounted on FR4 PCB, 2 oz. standard footprint

(3) Thermal resistance $R_{\theta JA}$ - junction to ambient; $R_{\theta JM}$ - junction to mount

ORDERING INFORMATION (Example)				
PREFERRED P/N	**UNIT WEIGHT (g)**	**PREFERRED PACKAGE CODE**	**BASE QUANTITY**	**DELIVERY MODE**
SS1FH10-M3/H	0.015	H	3000	7" diameter plastic tape and reel
SS1FH10-M3/I	0.015	I	10 000	13" diameter plastic tape and reel
SS1FH10HM3/H (1)	0.015	H	3000	7" diameter plastic tape and reel
SS1FH10HM3/I (1)	0.015	I	10 000	13" diameter plastic tape and reel

Note

(1) AEC-Q101 qualified

RATINGS AND CHARACTERISTICS CURVES (T_A = 25 °C unless otherwise noted)

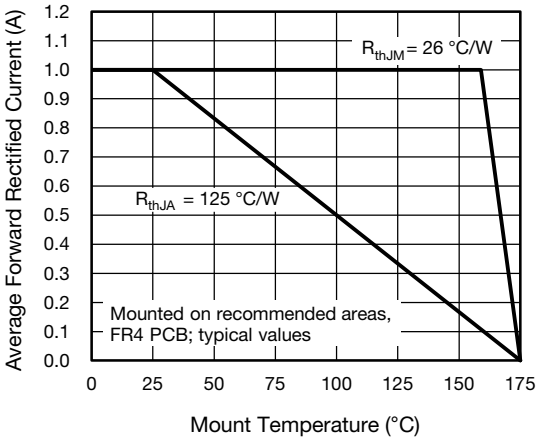


Fig. 1 - Typical Forward Current Derating Curve

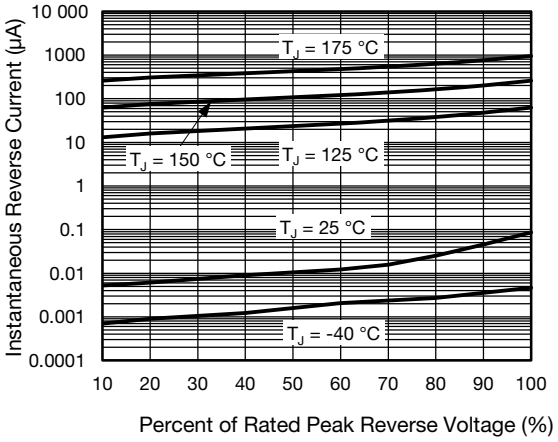


Fig. 4 - Typical Reverse Leakage Characteristics

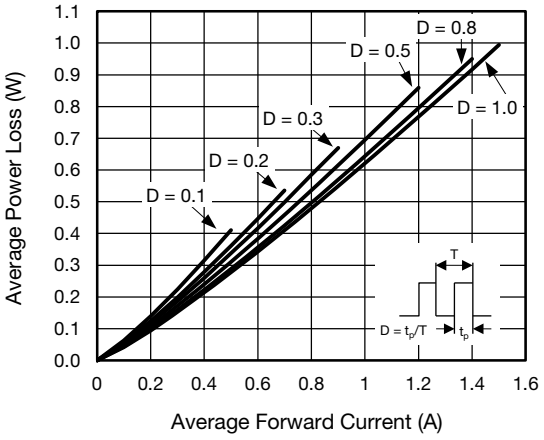


Fig. 2 - Forward Power Loss Characteristics

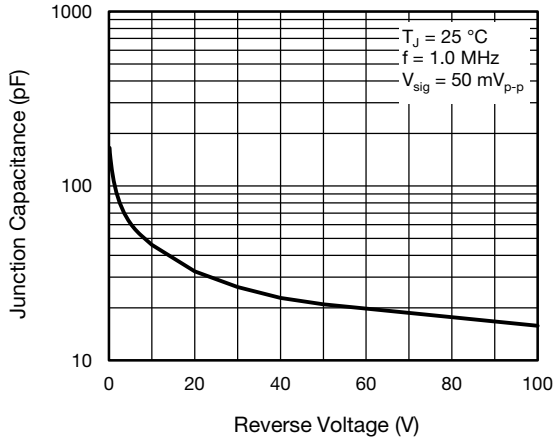


Fig. 5 - Typical Junction Capacitance

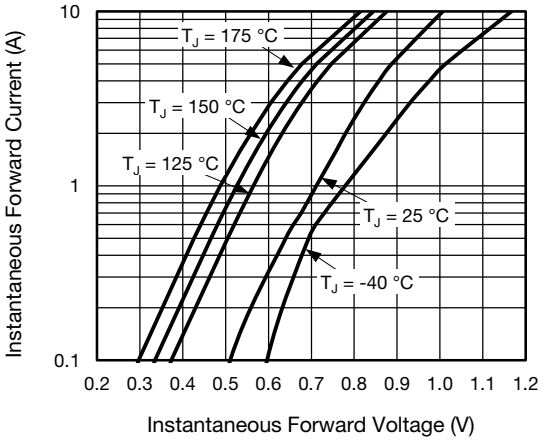


Fig. 3 - Typical Instantaneous Forward Characteristics

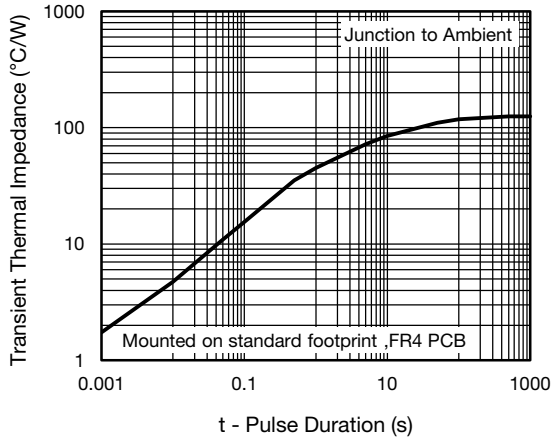
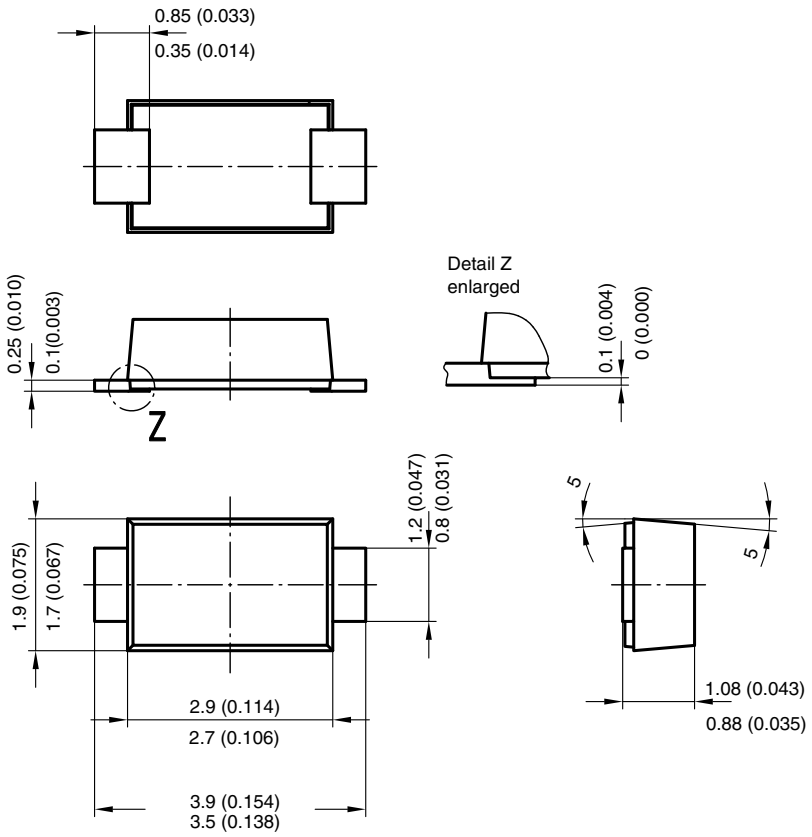
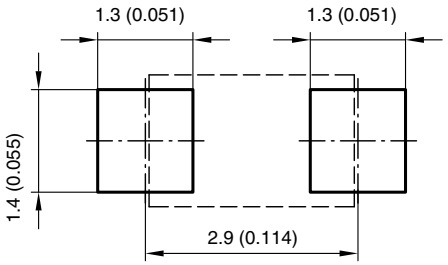


Fig. 6 - Typical Transient Thermal Impedance

PACKAGE OUTLINE DIMENSIONS in millimeters (inches)



Foot print recommendation:



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